

FIG. 1

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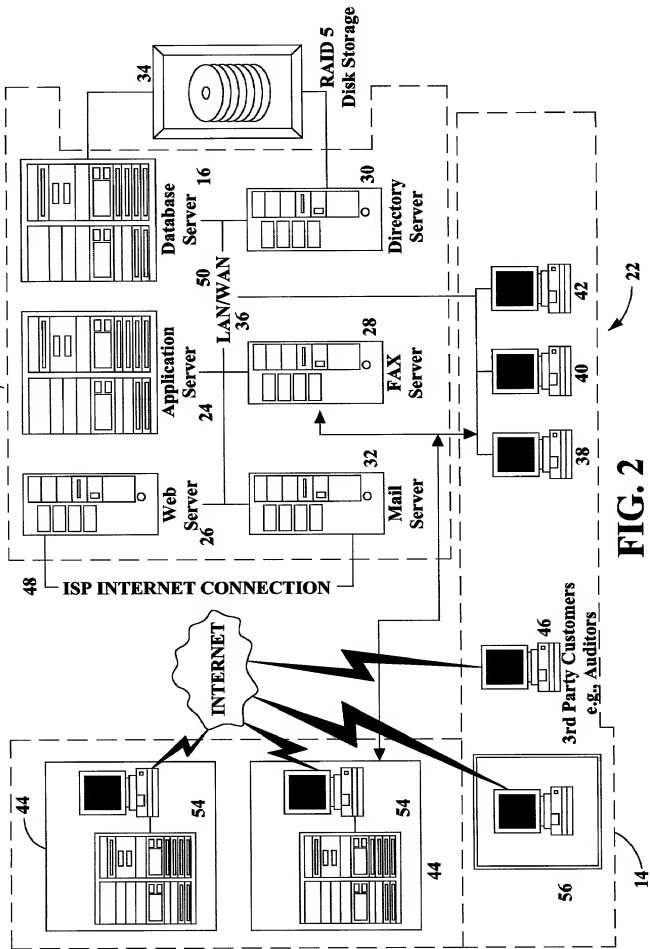


FIG. 2

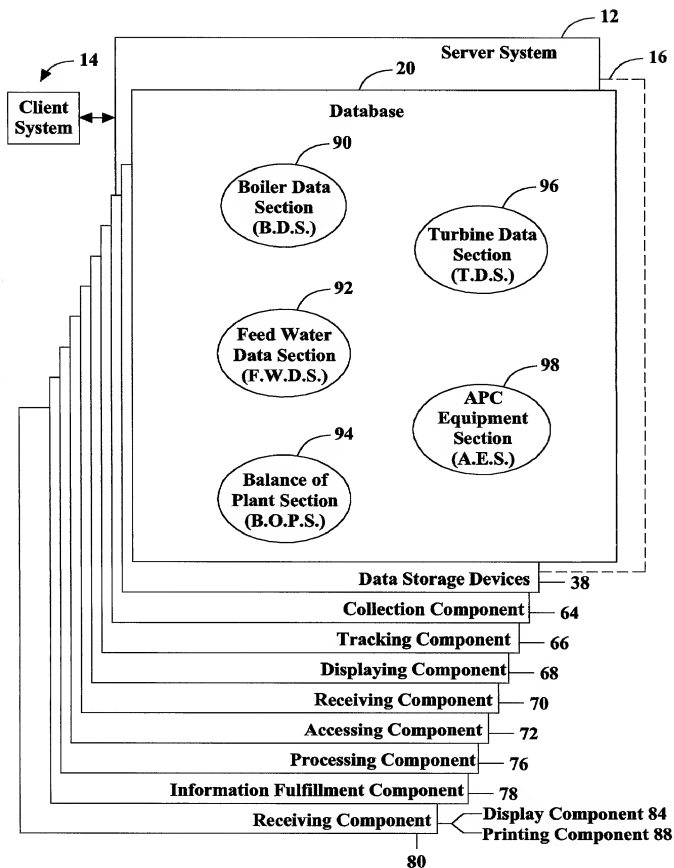


FIG. 3

106000" E20EE960

File Name CoalPer031601
Project Name Sample Project

Location USA

Operator To Be Determined

Facility Generation Information (per unit information):

Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8
373	0	0	0	0	0	0	0

Unit Gross Output (Input 0 IF N/A)

TYPICAL

House Load

126 — Type of Unit

PULVERIZED COAL

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Dispatch Information

Unit 1

Percentage of Available Hours Dispatched	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	100.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	100.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	100.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	100.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	100.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

FIG. 4

120

130

128

124

132

<u>Dispatched Load</u>	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
January	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	95.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	95.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	95.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	95.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	95.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

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FIG. 5

120

Unit 2

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
<u>Dispatched Load</u>										
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 6

Unit 3

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
Dispatched Load	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 7

Unit 4

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 8

Unit 5

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

Dispatched Load

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 9

Unit 6

Percentage of Available Hours Dispatched

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
<u>Dispatched Load</u>										
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 10

Unit 7

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

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FIG. 11

Unit 8

Percentage of Available Hours Dispatched

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Dispatched Load										
January	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
February	93.00%	93.00%	94.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%	93.00%
March	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
April	94.00%	94.00%	95.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
May	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
June	95.00%	95.00%	96.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
July	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
August	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%	96.00%
September	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
October	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
November	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
December	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%	94.00%
Dispatched Load										
January	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
February	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
March	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%	97.00%
April	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
May	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
June	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
July	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
August	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
September	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%	99.00%
October	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
November	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%
December	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%	98.00%

FIG. 12

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Fuels Information: 142

ACTUAL ANALYSIS ▼

Moisture & Ash Free

Carbon 74.66%
Hydrogen 5.26%
Nitrogen 1.08%
Chlorine 0.02%
Sulfur 1.31%
Oxygen 18.24%

Proximate (Sulfur Free)

Fixed Carbon 34.00%
Volatile Matter 30.70%
Moisture 29.80%
Ash 5.60%
Excess Air 20.00%
HHV 9.500

Ash Mineral Analysis

Silica - SiO₂ 31.00%
Alumina - Al₂O₃ 14.00%
Titania - TiO₂ 1.10%
Ferric Oxide - Fe₂O₃ 6.60%
Lime - CaO 24.60%
Magnesia - MgO 6.00%
Potassium Oxide - K₂O 0.26%
Sodium Oxide - Na₂O 1.30%
Sulfur Trioxide - SO₃ 12.20%
Phosphorous Pentoxide - P₂O₅ 0.70%
Undetermined 2.30%

Operational Information:

Cycle

ACTUAL CYCLE VALUES ▼

144

Superheater Flow (#/hr)

Outlet Pressure (psig)

Outlet Temperature

Unit 1 2,568,331

2,400

1,000

Unit 2

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Unit 8

140

FIG. 13

Reheater Flow (#/hr) Inlet Pressure (psig) Outlet Pressure (psig) Inlet Temperature (F) Outlet Temperature (F)

2,254,665 639 574 1,000

Unit 1
Unit 2
Unit 3
Unit 4
Unit 5
Unit 6
Unit 7
Unit 8

Feedwater Temperature (F)

146

Unit 1 490
Unit 2 0
Unit 3 0
Unit 4 0
Unit 5 0
Unit 6 0
Unit 7 0
Unit 8 0

Stack Temperature (F)

148

ACTUAL	▼
--------	---

Unit 1 275
Unit 2 0
Unit 3 0
Unit 4 0
Unit 5 0
Unit 6 0
Unit 7 0
Unit 8 0



140

FIG. 14

Flyash Control Equipment

162

SO₂ Control Equipment

164

Unit 1	SCRUBBER	▼	LIME	▼
Unit 2	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 3	DRY INJECTION	▼	LIME	▼
Unit 4	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 5	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 6	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 7	NO SO2 EQUIPMENT	▼	LIME	▼
Unit 8	NO SO2 EQUIPMENT	▼	LIME	▼

160

FIG. 15

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166

Mercury Control Equipment

Unit 1	ACTIVATED CARBON	▼
Unit 2	NO HG CONTROL	▼
Unit 3	NO HG CONTROL	▼
Unit 4	NO HG CONTROL	▼
Unit 5	NO HG CONTROL	▼
Unit 6	NO HG CONTROL	▼
Unit 7	NO HG CONTROL	▼
Unit 8	NO HG CONTROL	▼

168

NOx Control Equipment

Unit 1	SCR	▼
Unit 2	LOW NOX BURNERS	▼
Unit 3	SNCR	▼
Unit 4	LOW NOX BURNERS	▼
Unit 5	LOW NOX BURNERS	▼
Unit 6	LOW NOX BURNERS	▼
Unit 7	LOW NOX BURNERS	▼
Unit 8	LOW NOX BURNERS	▼

170

Pricing Information:

Coal Pricing

FOB Mine	\$15.00
Transportation	\$15.00
	\$30.00

160

FIG. 16

100000-22800850

202

STEAM CONDITIONS:

Without QF Steam

Superheater Flow: 2,568,331
Reheater Flow: 2,254,665

Inlet Conditions:	Superheat	Reheat
Steam Pressure - psia	2,470	639
Steam Quality	0	
Water/Steam Temp. - F	490	660
Enthalpy	476	1,325
Outlet Conditions:		
Steam Pressure - psia	2,415	589
Steam Temp. - Deg. F	1,000	1,000
Enthalpy	1,460	1,518
Heat Input	984	192

204

With Equiv. QF Steam

2,568,331 lb/hr
2,254,665 lb/hr

QF HEAT LOSS	No Loss
Pounds Per Hour	0
Pressure - psia	464,696
Temperature	460
Degrees of SH	50
QF Steam Enthalpy	1243.18
FW Enthalpy	476.14
Heat Loss - Btu's	0
Increase in Steam - #/hr	0
	0.00%
Equiv. Output - MW	373
MW	

210

Reheat-To Superheat Ratio 0.877871661

208

206

	MCR	Partial Load
2.-55	0.0000	0.0000
>55	0.9589	0.9589



190

FIG. 17

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FUEL FIRED PER HOUR	lb/hr	418,234	tonnes/hr	396,065	tonnes/hr
AVERAGE LOAD CONDITION DURING AVAILABLE HOURS	TPH	209.12	190	198.03	180
AVAILABLE HOURS	%	100.00%		95.00%	
FUEL FIRED PER YEAR	t/yr	8,256		1,634,955	
		1,726,472			
TOTAL COMBUSTION PRODUCTS	lb/hr	3,601,358		3,410,456	
	ACFM	1,109,079			
TOTAL COMBUSTION AIR	lb/hr	3,183,124		3,014,392	
	ACFM	997,176			
TOTAL ASH (100% UP)	t/hr	11.50		10.89	
TOTAL LIMESTONE (100% UP)	t/hr	3.10		2.93	
	t/hr	25,586		24,230	
TOTAL FLYASH/LIMESTONE REMOVAL SYSTEM LOADING	t/hr	14.60		13.83	
				114,152	
FLUE GAS TO STACK	lb/hr	3,601,358		3,410,456	
LUNGSTROM AIR HEATER LEAKAGE	lb/hr	0		0	
SOOTBLOWING STEAM	lb/hr	0		0	
NET EVAPORATION	lb/hr	2,568,331		2,439,914	
POUNDS STM/KW		6.89			
NO. OF UNITS		1			
HEAT RATE CALCULATION (APPROX.)					
Gross Heat Rate (Total Plant):	BTU/KW HR	9,543	HHV	BTU/KW HR	kJ/KWh
Net Heat Rate (Turbine Only):	BTU/KW HR	8,824	LHV	9,513	10,036
Plant Gross Heat Rate:		10,098	HHV	10,066	9,280
Plant Net Heat Rate:		9,338	LHV	9,308	10,621
					9,820

190

FIG. 19

20/64

	2001	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total
Total Plant Costs										
Direct Labor:										
Adjusted for local labor requirements yes=1, no=0	0									
	\$8,459,453								\$8,459,453	F
Operator's Fees & Services:	\$327,939								\$327,939	F
Bonus Payments:	\$0								\$0	F
Home Office Technical Support:	\$0								\$0	F
Percent of Annual Labor:										
Warranty Support:	\$0								\$0	F
Percent of Annual Labor:										
Planned Maintenance:	\$4,100,334								\$4,100,334	M
Boiler:										
Turbine: (Major Turbine Outage assumed in 1998)										
APC Equipment:										
Feedwater System:										
BOP:										
Unplanned Maintenance:	\$410,033								\$410,033	M
10% of Planned Maintenance:										
Planned Spare Parts:										
Boiler:	\$1,731,661									V
Turbine:	\$766,330								\$1,731,661	V
APC Equipment:	\$149,151								\$766,330	V
Feedwater System:	\$62,661								\$149,151	V
BOP:	\$176,591								\$62,661	V
	\$2,866,394								\$176,591	V

FIG. 20

Unplanned Snare Parts:

10% of Planned Spares:

Emulsion Thermal & Polargation:

Other Employee Expenses, Fees and Services:

Office/Administration expenses: \$381,973

Included

Percent of Annual Labor:

Asset Disposal:

Start-up Fuel:

Consumables: \$379,977

Chemicals:
\$458,866

Coal:

Limestone:

Purchased Power:

Equipment Rental: \$1,416,663

Total Operating Budget

Taxes 8

Insurance Not Included! Building Data Base \$0

Total Operation Costs Including Taxes and Insurance: \$0

Gross kW generated Annually

Cost of Generation:

FIG. 21

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O & M Cost Summary For: 2000

	Fixed Costs	Variable Costs	Major Maintenance	Fuel
Direct Labor:	\$6,459,453			
Operator's Fees & Services:	\$327,939			
Bonus Payments:	\$0			
Home Office Technical Support:	\$0			
Warranty Support:	\$0			
Planned Maintenance:			\$4,100,334	
Power Marketing & Resource Management:	\$0			
Unplanned Maintenance:			\$410,033	
Planned Spare Parts:				
Boiler:		\$1,731,661		
Turbine:		\$756,330		
APC Equipment:		\$149,151		
Feedwater System:		\$82,661		
BOP:		<u>\$176,591</u>		
		\$2,866,394		

FIG. 22

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Unplanned Spare Parts: \$2,886,394

Employee Travel & Relocation: \$86,300

Other Employee Expenses, Fees and Services: \$286,422

Office/Administration expenses: \$361,973

Contract Services: Included

Ash Disposal: \$1,126,990

Start-up Fuel: \$84,716

Consumables: \$379,977

Chemicals: \$458,886

Coal: \$46,510,069

Limestone: \$359,458

Purchased Power: \$212,706

Equipment Rental: \$1,418,553

					Total Generation Costs
Total Operating Budget	¹ \$9,622,066 13.65%	\$7,216,116 10.35%	\$4,610,068 8.47%	\$4,610,068 8.47%	\$69,780,637
	Fixed Costs \$0.0033	Variable Costs \$0.0026	Maintenance \$0.0166	Maintenance \$0.0166	\$0.0239

230

FIG. 23

File Name: CoalPer031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

240

Facility Generation Information (per unit information)

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total
Facility Net Output:	1	0	0	0	0	0	0	0	0
House Load (-5.5%):	352.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.0 MW
	5.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00% MW
House Load in MW	20.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 MW
Line Losses:	0	0	0	0	0	0	0	0	0
Unit Gross Output:	373	0	0	0	0	0	0	0	373 MW
Total Installed Capacity in MW	373	0	0	0	0	0	0	0	373 MW
Equivalent Gross	373	0	0	0	0	0	0	0	373 MW
O&M Costs Calculated:	1	1	1	1	1	1	1	1	1
Based on Actual Gross Output = 1									
Based on Equiv. Gross Output = 2	0	0	0	0	0	0	0	0	0
Equiv. Increased MW Output:	373	0	0	0	0	0	0	0	0
(Approximate)									
Gross Output Used in O&M Calculations:	373	0	0	0	0	0	0	0	0
Unit Net Heat Rate (HHV)	BTU/KW HR	10,998	0	0	0	0	0	0	0
	kJ/kWh	10,654	0	0	0	0	0	0	0
									Rtu/kWh
									kJ/kWh

FIG. 24

17-Mar-01

Cost Related Information:
Escalation Date

244

FIG. 25

Escalation Rate	4.00%
Last Major Turbine Overhaul	01-May-94
Cost of Purchased Electricity	\$0.060
Location Adjustment Index	
CPI Composite	Base
Material	Index
Labor	99.7
	98.7
	147.00
	154.00
Exchange Rate (X/US\$)	
Cost per Ton of Fuel (Including trans.)	USB
	\$15.00
	\$15.00
	\$30.00
	\$33.07
	per ton
	per tonne
	MM Btu's/ton
	\$/MM Btu's - FOB mine
	\$/MM Btu's - Delivered
Disposal Cost per Ton of ASH/Scrubber Sludge	\$1.76
	\$10.00
Disposal Cost per Ton of ASH/Scrubber Sludge	LIMESTONE 1
	LIME 2
	2
Lime/Limestone	
Cost per Ton Of:	
	\$0.00
	\$0.00
	\$15.00
	Total:
	Oil = 1; NG = 2
	2
Start-up Fuel	Oil Cost Per Gallon (Delivered)
	\$0.80
	NG Cost Per Therm
	Transportation:
	\$0.50

Coal Pricing - Tonne Basis		
69.55	84.76	97.06
	121.87%	114.51%
6.66	7.55	8.61
	113.36%	114.04%

Ash - Tonne Basis		
21.35	22.68	26.22
	106.23%	115.61%

FIG. 26

Operator Related Information: Operator Fee \$0 Operator Bonus \$0 Home Office Tech Support \$0 Warranty Support 4 Number of Shifts 0 Union/non-union Facility 10% Overtime 40% Wage Benefits									
248									
250									
Facility Equipment Information: Type of Boiler Equipment (1 or 2) 1 PULVERIZED COAL 2 FLUIDIZED BED Unit Design / Commercial Operation Date Number of Boilers Flyash Control System SO ₂ Control System: Mercury Control System NO _x Control System									
1 ESP 2 BAGHOUSE 3 BAGHOUSE PLUS GORETEX BAGS 1 NO SO ₂ EQUIPMENT 2 DRY INJECTION 3 SCRUBBER 1 NO HG CONTROL 2 ACTIVATED CARBON									
UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8		
1	1	1	1	1	1	1	1		
PC	PC	PC	PC	PC	PC	PC	PC		
1	1	1	1	1	1	1	1		
2	1	3	1	1	1	1	1		
3	1	2	1	1	1	1	1		
2	1	1	1	1	1	1	1		

FIG. 27

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1 LOW NOX BURNERS	3	1	2	1	1	1	1	1
2 SNCR								
3 SCR								
Cooling Tower: (Yes=1; No=0)								
Cycle:								
1 ACTUAL CYCLE VALUES	1	1	1	1	1	1	1	1
2 STANDARD 1800 PSIG (NON-REHEAT)								
3 STANDARD 2400 PSIG (5% OP)	1	1	1	1	1	1	1	1
Superheater:								
(~4,000,000 @ 600 MW) (Input Actual Flow Value if Available)								
Flow without QF heat loss	2,568,331	0	0	0	0	0	0	0
Equiv. QF Steam Increase	0	0	0	0	0	0	0	0
Total Steam Flow	2,568,331	0	0	0	0	0	0	0
Outlet Pressure	2,400	0	0	0	0	0	0	psig
Outlet Temperature	1,000	0	0	0	0	0	0	deg F
Reheater:								
~3,770,000 @ 600 MW	0	0	0	0	0	0	0	0
Flow without QF heat loss	2,254,665	0	0	0	0	0	0	0
Equiv. QF Steam Increase	0	0	0	0	0	0	0	0
Total Steam Flow	2,254,665	0	0	0	0	0	0	0
Inlet Pressure (psig)	639	0	0	0	0	0	0	psig
Inlet Temperature (F)	660	0	0	0	0	0	0	0
Outlet Pressure (psig)	574	0	0	0	0	0	0	psig
Outlet Temperature (F)	1,000	0	0	0	0	0	0	0
Feedwater Temperature								
Stack Temperature	490	0	0	0	0	0	0	0
Ambient Temperature	1	275	0	0	0	0	0	0
Spares Cost	80	0	0	0	0	0	0	0
Fuel Loss during Handling:								
SO ₂ Removal	90%	0%	0%	0%	0%	0%	0%	0%
	3%	0%	0%	0%	0%	0%	0%	0%

FIG. 28

Fuels Information:

- ACTUAL ANALYSIS 1
 STANDARD BITUMINOUS 2
 STANDARD SUBBITUMINOUS 3
 STANDARD LIGNITE (TEXAS) 4
 STANDARD NATURAL GAS 5

Selected Fuels Input:

1

Fuel Analysis:Sub-Ultimate AnalysisBituminous

Moisture	29.80%
Ash	5.50%
Carbon	48.30%
Hydrogen	3.40%
Nitrogen	0.70%
Chlorine	0.01%
Sulfur	0.85%
Oxygen	11.80%
	100.36%

Proximate:

Fixed Carbon (differential)	33.71%
Volatile Matter	30.44%
Sulfur	0.85%
Moisture	29.55%
Ash	5.45%
	100.00%

Excess Air:	20.00%	Btu/lb
HHV:	8,500	Btu/tonne
LHV:	18.28	GJ/tonne

Natural Gas

(Gas analysis is entered on fuels page)

Oxygen	O ₂	0.00%
Argon	A	0.00%
Carbon Dioxide	CO ₂	0.00%
Nitrogen	N ₂	0.00%
Hydrogen	H ₂	0.00%
Hydrogen Sulfide	H ₂ S	0.00%
Methane	CH ₄	0.00%
Ethane	C ₂ H ₆	0.00%
Propane	C ₃ H ₈	0.00%
n-Butane	C ₄ H ₁₀	0.00%
n-Propane	C ₅ H ₁₂	0.00%
n-Hexane	C ₆ H ₁₄	0.00%
Total:		0.00%

Excess Air: 10.00%

HHV: 0 Btu/CF(1)

LHV: 0 Btu/CF(1)

Note 1: (68F, 30"WG)

FIG. 29

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Furnace Volume Design Parameters			
Volume - Cu. Ft.:		20,000	
Surface - Sq. Ft. (EPRS - Up Nose):		200,000	
NHI/PA:		1,850,000	
Carbon Loss		0.25%	

FIG. 30

File Name: CoalPer031601

Project Name: Sample Project

Location: USA

270

Operator: To Be Determined

Escalation 4.00%

Escalation Factor 1.070

Number of Equipment Sets Per Unit

Unit Gross Output

Development Costs

Internal Costs
Third Party Costs
Project Counsel
Development Contingency
Land Options
Pre NTP EPC Cost
Total Development Costs

Development Fee
Mine Acquisition Costs
Site Purchase
Development Fee/Mine Acquisitions/Site

Plant

Boilers

Headers
Heating Surface
Waterfall
Steel
Firing Equipment
Misc. Equipment

	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total Facility
	1	0	0	0	0	0	0	0	1
	373	0	0	0	0	0	0	0	373
19-Mar-01									
\$11,833	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,832.68
\$12,326	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,325.70
\$1,578	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,577.69
\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$986	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$986.06
\$1,972	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,972.11
\$28,694	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$28,694.24
\$9,057	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$9,057.13
\$0	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
\$12,076	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$12,076.17
\$21,133	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$21,133.30
\$4,307	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$21,936	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$12,904	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$16,533	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$10,275	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$20,646	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
\$86,601	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$86,600.65

FIG. 31

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Turbine Generators	\$38,324	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38,324.29
BAGHOUSE	\$7,459	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$7,459.07
SCRUBBER	\$37,253	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,252.60
ACTIVATED CARBON	\$419.07	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$419.07
SCR	\$37,253	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$37,252.60
Circulating Water System	\$1,275.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,275.65
Electrical System & Equipment	\$25,530.45	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$25,530.45
Fuel Storage & Handling	\$17,662.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$17,662.70
Infrastructure	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Water Treatment	\$3,132.42	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,132.42
Other	\$39,755.15	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$39,755.15
Misc. Insurance	\$515.62	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$515.62
Fixtures										
Boilers - not plant related	\$446.53	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$446.53
Chimneys	\$3,500.06	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$3,500.06
Cooling Towers	\$20,257.85	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$20,257.85
Coal Bunkers	\$1,002.37	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,002.37
Land & Buildings										
Buildings	\$34,773.70	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$34,773.70
Other										
EPC Target	\$49,085.86	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$49,085.86
Total EPC Costs	\$402,046.65	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$402,046.65
Transmission Fees During Construction	\$4,021.87	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4,021.87
Waste Water Pipeline	\$11,189.05	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$11,189.05
Management Services During Construction										
General & Administrative	\$15,382.48	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$15,382.48
Professional Services	\$2,760.96	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,760.96
Engineering Consultants	\$1,972.11	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,972.11
Utilities	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Owner's Mobilization G&A	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Other Owner's Costs	\$2,218.63	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,218.63
Management Services Fee	\$1,725.60	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,725.60
Total Owner's Costs	\$24,059.78	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$24,059.78

FIG. 32

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Date	Mar-01	Mar-02	Mar-03	Mar-04	Mar-05	Mar-06	Mar-07	Mar-08	Mar-09	Mar-10
Hours Of Operation (@end of operational year)	1	2	3	4	5	6	7	8	9	10
Operational Year										
Waterwall	\$258	\$1,290	\$258	\$258	\$258	\$258	\$258	\$1,290	\$258	\$258
Heating Surface	\$439	\$2,193	\$439	\$439	\$439	\$439	\$439	\$2,193	\$439	\$439
Grates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Pulverizers	\$0	\$1,032	\$0	\$0	\$0	\$516	\$0	\$1,032	\$0	\$258
Air Pre-Heaters	\$0	\$1,032	\$0	\$0	\$0	\$516	\$0	\$1,032	\$0	\$258
Fuel Handling	\$0	\$88	\$0	\$0	\$0	\$88	\$0	\$177	\$0	\$88
Headers	\$0	\$215	\$0	\$0	\$0	\$0	\$0	\$215	\$0	\$0
Steel	\$0	\$0	\$0	\$0	\$0	\$17	\$0	\$0	\$0	\$0
Belts/Crushers	\$0	\$0	\$0	\$0	\$0	\$132	\$0	\$0	\$0	\$0
Casing/Refractory/Ductwork	\$0	\$0	\$0	\$0	\$0	\$177	\$0	\$0	\$0	\$0
Chemical Cleaning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$550	\$0	\$0
	\$697	\$5,851	\$697	\$697	\$697	\$2,143	\$697	\$6,489	\$697	\$1,301
10 Year Average										
										\$464
										\$790
										\$0
										\$310
										\$310
										\$62
										\$43
										\$2
										\$13
										\$18
										\$55
										\$2,066

34/64

FIG. 34

300

35/64

Turbine (insp/overhaul)	\$0	\$1,916	\$0	\$0	\$0	\$0	\$0	\$0	\$1,916	\$0	\$0	\$0	\$0	\$383
Turbine Values	\$0	\$575	\$0	\$0	\$287	\$0	\$0	\$0	\$575	\$0	\$0	\$0	\$0	\$144
Generator (inspections)	\$0	\$766	\$0	\$0	\$0	\$0	\$0	\$0	\$766	\$0	\$0	\$0	\$0	\$153
Sub-Total	\$0	\$3,257	\$0	\$0	\$287	\$0	\$0	\$0	\$3,267	\$0	\$0	\$0	\$0	\$680
Antion Resin	\$344	\$0	\$0	\$376	\$0	\$0	\$0	\$0	\$407	\$0	\$0	\$0	\$188	\$132
Cation Resin	\$0	\$141	\$0	\$0	\$0	\$125	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$27
MB Resin	\$141	\$0	\$0	\$110	\$0	\$0	\$0	\$0	\$125	\$0	\$0	\$0	\$141	\$52
Carbon Filters	\$78	\$0	\$78	\$0	\$78	\$0	\$78	\$0	\$78	\$0	\$78	\$0	\$39	\$39
Gravity Filters	\$0	\$0	\$13	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$38	\$0	\$5
Sub-Total	\$564	\$141	\$91	\$485	\$78	\$125	\$611	\$0	\$116	\$329				\$264
BAGHOUSE	\$0	\$0	\$164	\$0	\$0	\$164	\$0	\$0	\$184	\$0	\$0	\$184	\$0	\$49
SCRUBBER	\$0	\$0	\$310	\$0	\$0	\$310	\$0	\$0	\$310	\$0	\$0	\$310	\$0	\$93
Sub-Total	\$0	\$0	\$474	\$0	\$0	\$474	\$0	\$0	\$474	\$0	\$0	\$474	\$0	\$142
Electrical	\$0	\$233	\$0	\$233	\$0	\$233	\$0	\$233	\$0	\$233	\$0	\$233	\$0	\$117
I&C	\$0	\$117	\$0	\$117	\$0	\$117	\$0	\$117	\$0	\$117	\$0	\$117	\$0	\$58
Power Block	\$0	\$1,916	\$0	\$0	\$958	\$0	\$0	\$1,916	\$0	\$0	\$0	\$0	\$0	\$479
Ash Handling	\$413	\$0	\$206	\$0	\$206	\$0	\$413	\$0	\$413	\$0	\$413	\$0	\$165	\$165
General	\$122	\$0	\$139	\$0	\$146	\$0	\$156	\$0	\$122	\$0	\$122	\$0	\$68	\$68
Facilities/Infrastructure	\$0	\$122	\$0	\$0	\$0	\$0	\$170	\$0	\$170	\$0	\$0	\$170	\$0	\$71
Sub-Total	\$535	\$2,387	\$346	\$489	\$1,310	\$606	\$669	\$2,436	\$535	\$472				\$968
Total	\$1,795	\$11,636	\$1,607	\$2,364	\$2,373	\$3,248	\$1,877	\$12,182	\$1,821	\$2,101				\$4,100

FIG. 35

36/64

General Project Information:

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Operator's Fees & Service:

Operator Fee	\$0
Legal Services	\$139,805
Construction Services	\$146,709
Testing Services	<u>\$41,424</u>
total Fees & Services	\$327,939

<u>Travel:</u>	\$86,300
-----------------------	----------

<u>Misc. Employee Expenses</u>	\$286,422
---------------------------------------	-----------

310

FIG. 36

37/64

File Name: CoalPerf031601
Project Name: Sample Project

Location: USA

Operator: To Be Determined

Sample Project

Consumerables:

Lubricating Oils:		\$379,977
Hydraulic Oil:		
Solvents/Boiler Wash:		
Cleaning Materials:		
Welding Supplies:		
Nuts/Bolts/Small Mechanical Parts:		
Fuses/Light Bulb/Small Elect.Parts:		
Fittings/Small I&E Parts:		
Gas & Oil:		
Total Oils and Lubricants		\$379,977

Chemicals:

Boiler Water:	62.27%	\$285,603
Cooling Water:	36.38%	\$166,889
Demin.Regen:	1.35%	\$6,194
Fuel Oil:		
Sanitary:		
NOx:		
Aqueous Ammonia:		
Total Chemicals:		\$458,686

Gases:

Nitrogen:	\$0
Hydrogen:	\$0
Oxygen/Acetylene:	\$0
NOx, CO, SO2, O2 Span Gas:	\$0
Total Gases:	\$0

FIG. 37

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Office Supplies & Services:

Postage, Overnight Mail, etc:	\$17,104
Freight:	\$0
Telephone:	\$41,038
Utilities:	\$9,263
Dues, Subscriptions:	\$70,914
Advertising:	\$0
Camera/Film/Photo Supplies:	\$0
Copier/Paper/Services:	\$0
Offices Supplies:	\$40,194
General Supplies:	\$0
Audio Visual Equipment	\$0
Portable Radios/Services:	\$0
Drinking Water:	\$0
Safety Supplies:	\$0
Safety/Environmental Insp:	\$0
Instrument Service/Repair:	\$0
Vehicles/Service/Repair:	\$165,284
Insurance Autos/Trucks:	\$0
Lift Trucks/Service:	\$0
Small Tools:	\$0
Software for Computers:	\$271
Computer Hardware:	\$0
Building Maintenance:	\$4,594
Janitorial Supplies:	\$0
Misc. Expenses:	\$13,310
Uniforms:	\$0

Total Supplies and Services: \$361,973

Office Furniture/Rent:

Office Rent:	\$0
Desk/Chairs/etc:	\$0
Lab/Shop/Cntrl. Rm. Equip:	\$0
Computer Lease:	\$0

Total Office Furniture: \$0

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File Name: CoalPerf031601
Project Name: Sample Project
Location: USA
Operator: To Be Determined

Rentals/Lease:

Tools:	\$15,304
Equipment:	\$261,694
Office:	\$57,431
Office Equipment:	\$1,066,871
Railcar:	\$17,253
Lease Auto/Trucks:	\$1,418,553
Total Rentals:	

Planned Spare Parts:

Boiler:	\$1,731,661
Turbine:	\$766,330
APC Equipment:	\$149,151
Feedwater System:	\$62,661
BOP:	\$176,591
Total Spare Parts:	\$2,886,394

340

FIG. 39

40/64

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

Proximate Analysis:

FC	33.71%
VM	30.44%
S	0.85%
M	29.55%
<u>A</u>	<u>5.45%</u>
Total	100.00%
HHV (Btu/#)	8,500

Information used in conjunction with the coal classification figure:

BTU:	8504.98
Dry:	33.70%

Project Coal Classification:

Coal Type:	3
(Calculated)	Sub- Bituminous
	OK

Hardgrove Grind. Index:

FIG. 40

41/64

Ash Mineral Analysis:

Silica - SiO ₂	31.00
Alumina - Al ₂ O ₃	14.00
Titania - TiO ₂	1.10
Ferric Oxide - Fe ₂ O ₃	6.50
Lime - CaO	24.60
Magnesia - MgO	6.00
Potassium Oxide - K ₂ O	0.25
Sodium Oxide - Na ₂ O	1.30
Sulfur Trioxide - SO ₃	12.20
Phosphorous Pentoxide - P ₂ O ₅	0.70
Undetermined	2.35
Total	100.00

Ash Fusion Temperature (Deg. F)

Initial Deformation-Reducing (Input Data)	2189
Initial Deformation-Oxidizing (Input Data)	2239

PARR Formula Relationships:

BASE/ACID RATIO:

(A range of .4-.7 0.7641

coals and results in low ash-fusibility temps)

IRON/CALCIUM RATIO:

(3-0.3 INDICATIVE 0.26

lowers the fusibility temp. of the ash)

IRON/DOLOMITE RATIO:

(Blt. type ash u: 0.21

SILICA/ALUMINA RATIO:

(above 2.8 & b 2.21

FIG. 41

Project Natural Gas Analysis:

Natural Gas Analysis:		Percent by vol	Molecular Weight	Lb/100 Moles	Lb Constituent Per Lb Fuel	Lb Air Required for Combustion Per Lb Fuel	Lb Dry Air Per Lb Fuel	BTUs Per Per Constit	BTUs Per Lb Fuel	Density #/Cu Ft (2)
O ₂		0.00%	32.00	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.0846
Argon		0.00%	0.00	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.117
Carbon Dioxide		0.00%	44.00	0.00	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0.0744
Nitrogen		0.00%	28.08	0.00	#DIV/0!	34.34	#DIV/0!	61,095	#DIV/0!	0.0053
Hydrogen		0.00%	2.02	0.00	#DIV/0!	6.1	#DIV/0!	7,097	#DIV/0!	0.0911
Hydrogen Sulfide		0.00%	34.08	0.00	#DIV/0!	17.27	#DIV/0!	23,875	#DIV/0!	0.0425
Methane		0.00%	16.03	0.00	#DIV/0!	16.12	#DIV/0!	22,323	#DIV/0!	0.0803
Ethane		0.00%	30.05	0.00	#DIV/0!	15.7	#DIV/0!	21,669	#DIV/0!	0.1196
Propane		0.00%	44.06	0.00	#DIV/0!	15.49	#DIV/0!	21,321	#DIV/0!	0.1582
Butane		0.00%	58.10	0.00	#DIV/0!	15.35	#DIV/0!	21,095	#DIV/0!	0.1904
Pentane		0.00%	72.10	0.00	#DIV/0!		#DIV/0!	20,966	#DIV/0!	0.2274
Hexane		0.00%	86.12	0.00	#DIV/0!		#DIV/0!		#DIV/0!	
Total		0.00%		0.00	#DIV/0!		#DIV/0!		#DIV/0!	

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Molecular Weight of Fuel: 0

Flue Gas Weight:

#Gas/Cu. Ft. (gas)	0
GHI to GT (MMBTU)	372.8
GHI to Duct Burners	32.26
Total GHI:	405.06
HHV of Fuel (BTU/Cu. Ft.)	0
Cu. Ft. of Gas Fired / Hr	#DIV/0!
Lbs. of Gas Fired / Hr	#DIV/0!
Lbs. of Air / Hr	#DIV/0!
Total Gas Flow @ 0% EA	#DIV/0!

FIG. 42

Natural Gas Heating Value Conversion Analysis:

17-Mar-01

Natural Gas Analysis:		Percent by vol	Btu/CF (1)	HHV Comp. Btu (68F, 14.70 psia)	HHV Comp. Btu (60F, 14.70 psia)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	319.4	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	547	0.00	0.00
Methane	CH4	0.00%	984.7	0.00	0.00
Ethane	C2H6	0.00%	1742.6	0.00	0.00
Propane	C3H8	0.00%	2480.1	0.00	0.00
Butane	C4H10	0.00%	3215.6	0.00	0.00
Pentane	C5H12	0.00%	3950.2	0.00	0.00
Hexane	C6H14	0.00%	4661.236	0.00	0
Total		0.00%	HHV =	0.00	0.00

Natural Gas Analysis:		Percent by vol	Btu/CF (1)	LHV Comp. Btu (68F, 30" WG)	LHV Comp. Btu (60F, 30" WG)
Oxygen	O2	0.00%	0	0.00	0.00
Argon	A	0.00%	0	0.00	0.00
Carbon Dioxide	CO2	0.00%	0	0.00	0.00
Nitrogen	N2	0.00%	0	0.00	0.00
Hydrogen	H2	0.00%	270	0.00	0.00
Hydrogen Sulfide	H2S	0.00%	595	0.00	0.00
Methane	CH4	0.00%	896	0.00	0.00
Ethane	C2H6	0.00%	194.5	0.00	0.00
Propane	C3H8	0.00%	2282.6	0.00	0.00
Butane	C4H10	0.00%	2968.7	0.00	0.00
Pentane	C5H12	0.00%	3654	0.00	0.00
Hexane	C6H14	0.00%	4311.72	0.00	0
Total		0.00%	LHV =	0.00	0.00

HHV/LHV Ratio #DIV/0!

Notes:

- (1) Source Mark's Standard Handbook for Mechanical Engineers
Ninth Edition Page 4-29

FIG. 43

Molecular Weights		
S	1	32.064
O	2	31.999
		84.083
		50.05%

SO₂ Offset Cost Assumption \$150.00 \$/Ton

Southern Fuels

@ 1.2 lbs
SO₂/million BTU

Mines	Average BTU/lb Content	Average Percent Sulfur (S%)	Average Ash Content (S%)	In Compliance (Y/N)*	8 % allowed for Compliance	Ibs SO ₂ /MM Btu	SO ₂ Reduction Efficiency	Ibs SO ₂ /MM Btu	Required Offsets Tons SO ₂ /Ton Coal Fired	Cost of Offsets \$/Ton of Coal Fired
Balloy	12,950	2.14%	7.50%	N	0.778%	3.3	10.00%	2.97	0.038462	\$5.769
Colonial	12,800	0.93%	8.89%	N	0.769%	1.45	0.00%	1.45	0.018560	\$2.784
Whitetail	12,800	1.60%	8.25%	N	0.769%	2.5	0.00%	2.50	0.032000	\$4.800
Juliana	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870
Sawmill	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870
Sentinel	12,900	1.29%	9.75%	N	0.775%	2	0.00%	2.00	0.025800	\$3.870
Winifrede	12,800	0.93%	9.25%	N	0.769%	1.45	0.00%	1.45	0.018560	\$2.784

\$2.767

41907.04

FIG. 44

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Provided Information						
Project Info. Check						
	HHV	Tons Fired	BBtu	SO ₂ (tons)	S (tons)	%S
Unit 1	8,551	756,000	12,929	11,500	5,756	0.76%
Unit 2	8,551	756,000	12,929	13,510	6,762	0.89%
Unit 3	8,551	752,000	12,861	12,220	6,116	0.81%
		2,264,000	38,719	37,230	18,534	
Project Info. Check						
	HHV	Tons Fired	BBtu	SO ₂ (tons)	S (tons)	%S
Unit 1	8,551	2,272,000	38,856	11,500	5,756	0.25%
Unit 2	8,551	2,335,000	39,984	13,510	6,762	0.29%
		4,610,000	78,840	25,010	12,518	

Calculated Information:									
Sub- Bituminous									
Project:	HHV	%S	Tons Fired	MMBtu	Sulfur (tons)	SO ₂ (tons)	#SO ₂ /MMBtu	SO ₂ (1.2#/MMBtu) Allowable Tons	tons of Offset Required
Unit 1	8,500	0.85%	1,617,002	27,489.039	13,745	27,481	2.00	16,493	10,968
Unit 2	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Unit 3	8,500	0.85%	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

FIG. 45

O & M Labor, Purchased Power And Fuel Calculations

GENERAL PROJECT INFORMATION:

File Name: CoalPerf031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

ANNUAL INFLATION RATE (to present day) 4.0%

BASE DATE 22-Aug-93

ESCALATION DATE 17-Mar-01

7.57

Part Year Esc. Factor 1.00

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BASE INDEX

Being Updated Zip Code to be used to identify location

	MODEL	PROJECT	PROJECT ADJUSTMENT
COMPOST ADJUSTMENT	99.7	0	#DIV/0!
MATERIAL	99.7	147	147.44%
LABOR		154	156.03%

Number of Units

Total Installed MW

Average Unit Size

Multiple Unit Labor Multiplier

CAPACITY (MW):

SYSTEM: POWER BLOCK

NUMBER OF SHIFTS

4 Operations and Maintenance

1 Administration

Exchange Rate 1

LABOR SUMMARY (ADJUSTED FOR LOCATION)

FIG. 46

ADMINISTRATIVE	NUMBER PER SHIFT	NUMBER OF SHIFTS	NUMBER OF EMPLOYEES	HOURLY WAGE	OVERTIME (YES-INO-0)	OVERTIME RATE	ANNUAL WAGE	ANNUAL O.T. per Employee	FRINGES 40%	ANNUAL Wage with Fringes per Employee	ANNUAL LABOR COST
PLANT MANAGERS	1	1	1	N/A	0	10.0%	\$100,946		40%	\$132,471	\$132,471
OPERATIONS MANAGERS	1	1	1	N/A	0	10.0%	\$87,765		40%	\$122,471	\$122,471
PLANT RESULTS MANAGER	1	1	1	N/A	0	10.0%	\$80,785		40%	\$113,057	\$113,057
OFFICE MANAGER	1	1	1	N/A	0	10.0%	\$74,025		40%	\$103,638	\$103,638
PLANT MANAGER	1	1	1	\$20.19	1	10.0%	\$4,193	\$46,192	40%	\$54,889	\$54,889
ACCOUNTANT	2	1	2	\$18.34	1	10.0%	\$30,193	\$43,112	40%	\$80,357	\$120,715
ACCOUNTANT CLERK	2	1	2	\$14.81	1	10.0%	\$30,795	\$33,974	40%	\$47,424	\$84,847
SECRETARY	3	1	3	\$13.46	1	10.0%	\$27,995	\$30,795	40%	\$43,112	\$126,337
PLANTRESULTS ENGINEER	1	2	2	N/A	0	10.0%	\$53,837		40%	\$75,371	\$150,743
STOCK CLERK	1	2	4	\$14.81	1	10.0%	\$33,974		40%	\$47,424	\$94,847
22											
SUB-TOTAL											\$1,420,192

OPERATIONS:	NUMBER PER SHIFT	NUMBER OF SHIFTS	NUMBER OF EMPLOYEES	HOURLY WAGE	OVERTIME (YES-INO-0)	OVERTIME RATE	ANNUAL WAGE	ANNUAL O.T. per Employee	FRINGES 40%	ANNUAL Wage with Fringes per Employee	ANNUAL LABOR COST
PLANT SUPERVISOR	1	4	4	N/A	1	10%	\$74,025	\$74,025	40%	\$103,989	\$414,542
CONTROL ROOM OPERATOR	1	4	4	N/A	1	10%	\$87,298	\$87,298	40%	\$122,471	\$494,942
CHEMIST	1	4	4	N/A	1	10%	\$80,357	\$80,357	40%	\$113,057	\$453,987
APC EQUIP. OPERATOR	2	4	8	N/A	1	10%	\$74,025	\$74,025	40%	\$103,638	\$823,085
ROVER	1	4	4	\$21.50	1	10%	\$44,792	\$44,792	40%	\$63,960	\$275,919
SWEETENER OPERATOR	1	4	4	\$17.50	1	10%	\$36,394	\$40,033	40%	\$56,046	\$224,185
FRONT-END LOADER	1	4	4	\$17.50	1	10%	\$36,394	\$40,033	40%	\$56,046	\$224,185
52											
MAINTENANCE	NUMBER PER SHIFT	NUMBER OF SHIFTS	NUMBER OF EMPLOYEES	HOURLY WAGE	OVERTIME (YES-INO-0)	OVERTIME RATE	ANNUAL WAGE	ANNUAL O.T. per Employee	FRINGES 40%	ANNUAL Wage with Fringes per Employee	ANNUAL LABOR COST
MECHANICS	1	4	4	\$32.30	1	10%	\$67,188	\$73,907	40%	\$103,407	\$413,879
MECHANICS HELPERS	1	4	4	\$24.23	1	10%	\$50,391	\$55,430	40%	\$77,802	\$310,409
TRUCK DRIVERS	1	4	4	\$18.84	1	10%	\$39,193	\$43,112	40%	\$60,357	\$241,429
ASH/APC SLUDGE MOVER	2	4	8	\$15.84	1	10%	\$30,357	\$33,974	40%	\$47,424	\$189,859
APC MECHANICS	2	4	8	\$32.30	1	10%	\$67,188	\$73,907	40%	\$103,407	\$413,879
28											
ELECTRICIANS	1	4	4	\$32.30	1	10%	\$67,188	\$73,907	40%	\$103,407	\$413,879
MECHANICS HELPERS	1	4	4	\$24.23	1	10%	\$50,391	\$55,430	40%	\$77,802	\$310,409
INSTRUMENT TECHS	1	4	4	\$32.30	1	10%	\$67,188	\$73,907	40%	\$103,407	\$413,879
APC I & C	2	4	8	\$32.30	1	10%	\$67,188	\$73,907	40%	\$103,407	\$413,879
20											
SUB-TOTAL											\$7,039,261

SUB-TOTAL O & M PLANT LABOR: \$7,039,261											7,039,261
0											0
Adjusted for local labor requirements yes=1, no=0											0
TOTAL DIRECT LABOR: \$7,039,261											7,039,261
TOTAL PLANT STAFF: 102											102
AVERAGE COST PER EMPLOYEE: \$68,938											\$68,938

SUB-TOTAL											\$82,850.54
Corrected											\$82,850.54
Uncorrected											\$82,850.54

FIG. 47

III. REPLACEMENT RESERVE

V. MISC. EXPENSES

WATER & SEWER

Not Including Building Data Base

	GPY		CCF		COST	
	#REF1	#REF1	#REF1	#REF1	#REF1	#REF1
WATER :						
SEWER :						
						(1993\$)
						(1996\$)

TOTAL WATER & SEWER

INSURANCE

APPROXIMATION

POLICIES						
1. ALL RISK POLICY (\$90 MILLION)					\$205,035	
BUSINESS INTERRUPTION (\$15 MILLION)					\$80,406	
3. THIRD PARTY LIABILITY					\$250,000	
4. POLLUTION LIABILITY (\$1 MILLION)					\$50,000	
TOTAL INSURANCE					\$0	(1993\$)
					\$0	

PURCHASED POWER

HOUSE LOAD

HOUSE LOAD-KW

HOURS PER YEAR OFF LINE

% OF HOUSE LOAD PURCHASED

POWER COST

ELECTRIC COST

DEMAND CHARGE

TOTAL ELECTRICITY COST

	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8
	5.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	20,489	0	0	0	0	0	0	0
	916.8	0	0	0	0	0	0	0
	10%	0%	0%	0%	0%	0%	0%	0%
	0.08	0	0	0	0	0	0	0
	\$112,706	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$212,706	\$0	\$0	\$0	\$0	\$0	\$0	\$0

FIG. 48

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START-UP FUEL	9.484614489	UNIT 1	UNIT 2	UNIT 3	UNIT 4	UNIT 5	UNIT 6	UNIT 7	UNIT 8
APPROXIMATE DAYS OFF LINE		21	0	0	0	0	0	0	0
NUMBER OF STARTS PER YEAR (AVG. 3 DAY Outage)		7	0	0	0	0	0	0	0
GROSS HEAT INPUT OF UNIT (MILLION BTU'S PER HOUR)		3555	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
GHI OF START-UP BURNERS-15% of GHI (MILLION BTU'S PER HOUR)		533.25	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
AVERAGE LENGTH OF START-UP (HOURS)		4	4	4	4	4	4	4	4
HEAT INPUT FROM STARTS		14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
TOTAL MILLION BTU'S REQUIRED FOR START-UP		14,931	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
NATURAL GAS REQUIRED @	\$0.20 per Therm	\$29,862							
OIL REQUIRED @	\$0.80 per Gallon	\$84,715	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
	Gallons	105,893							

REAL ESTATE TAXES
NOT INCLUDED IN ESTIMATE

WHEELING COST	Facility C	Facility D
	\$1,899,240	\$3,311,600
Calculated Value:	1.75198561	2.603019553

FIG. 49

This tab is being used to adjust variations in heat rate at partial loads in the performance section of the model

Flow Rates

Gen-KW

Reheater

Superheater

1,025,000

900,000

156,200

Boiler Feedwater Temperature-F:

460

Number of Feedwater Heaters:

6

Exhaust Pressure	Change %	TC2F Length EXH Pres	26					25%
			WVO	OP	WVO	100%	75%	50%
0.5	-3.12%	7746	1.0	7993	8003	8000	8016	8227
1	-1.22%	7897	1.5	7995	8017	8009	8073	8395
1.5	0.00%	7995	2.0	8032	8061	8059	8177	8584
2	0.93%	8089	2.5	8095	8132	8136	8302	8757
2.5	1.68%	8129	3.0	8181	8225	8230	8427	8917
3	2.33%	8181	3.5	8275	8328	8330	8543	9062
3.5	2.89%	8226	4.0	8376	8433		8653	9202
4	3.36%	8264	4.5	8472	8532		8757	9334
4.5	3.80%	8299	5.0	8566	8629		8857	9460
5	4.20%	8331						

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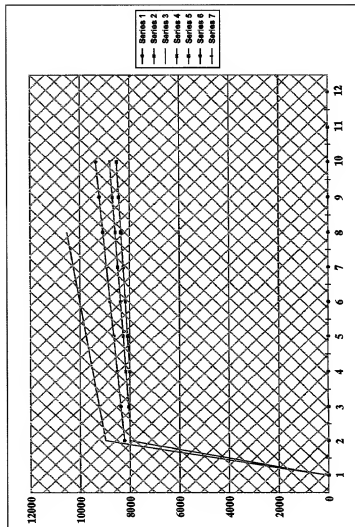


FIG. 50

TC2F

Last Stage Bucket Length

30

EXH Pns	VWO-OP	VWO	100%	75%	50%	25%
1.0	7832	7853	7844	7907	8225	9293
1.5	7884	7915	7918	8068	8531	9790
2.0	7995	8040	8050	8276	8797	10208
2.5	8149	8208	8212	8464	9045	10558
3.0	8312	8376		8636	9272	
3.5	8466	8536		8803	9479	
4.0	8612	8688		8962	9670	
4.5	8757	8841		9112	9844	
5.0	8901	8991		9254	10005	

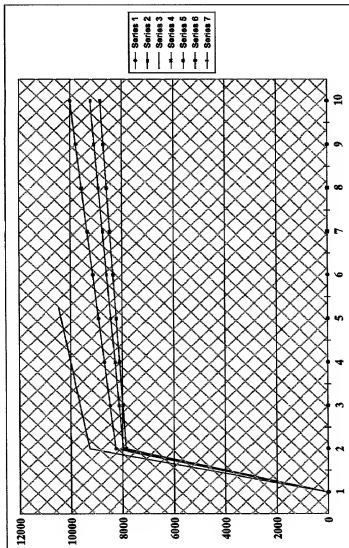
Flow Rates

Superheater Reheater Gen-KW

1,025,000 900,000 156,200

Boiler Feedwater Temperature-F: 460

Number of Feedwater Heaters: 6



Heat Rates

	Load	20%	25%	0.22%	0.28%	0.33%	0.39%	0.44%	0.50%	0.56%	0.61%
Test Heat Rates	13,463	12,476	11,827	11,371	11,036	10,782	10,584	10,427	10,270	10,113	9,956
calc. uncorrected	9,742	9,773	9,805	9,836	9,868	9,900	9,932	9,964	10,000	10,036	10,072
Steam correction factor	1.382	1.277	1.206	1.158	1.118	1.089	1.066	1.046	1.026	1.006	0.986
	1.1291239	1.11890487	1.10868585	1.09846682	1.0882478	1.07802877	1.06780975	1.05759072	1.04737170	1.03715268	1.02693366
				-8.80%	-5.24%	-2.77%	-1.03%	0.20%	1.05%	1.80%	2.55%

Check	20%	25%	30%	35%	40%	45%	50%	55%
200MW Tandem Compound		9,650					8,523	
350MW Tandem Compound		10,143					8,712	
400MW Tandem Compound		10,225					8,767	
600MW Tandem Compound		9,994					8,500	

FIG. 51

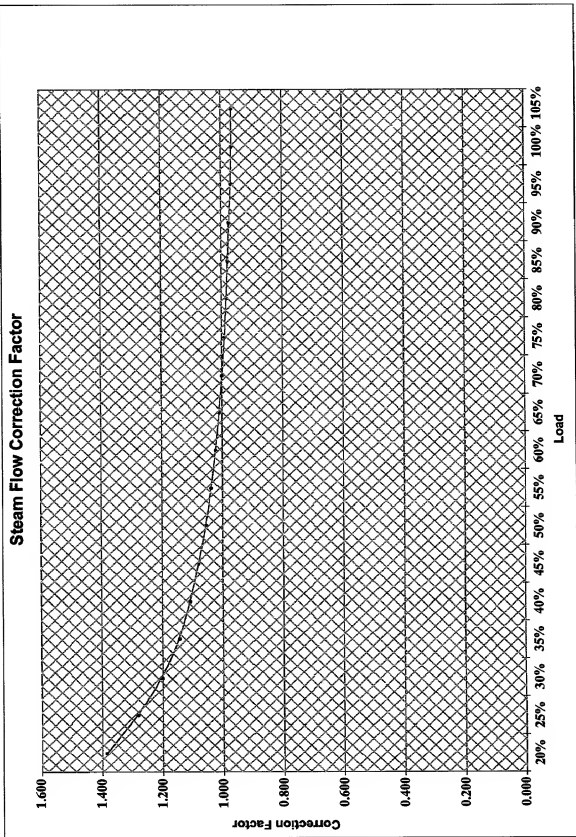
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	0.67%	0.72%	0.78%	0.83%	0.89%	0.94%	1.00%	1.06%	1.11%	1.17%
	60%	65%	70%	75%	80%	85%	90%	95%	100%	105%
	10,301	10,198	10,114	10,045	9,988	9,941	9,902	9,870	9,844	9,823
	9,997	10,030	10,063	10,096	10,130	10,163	10,197	10,231	10,266	10,300
	1,030	1,017	1,005	0,995	0,986	0,978	0,971	0,965	0,959	0,954
	1.0473717	1.03715267	1.02693365	1.01671462	1.0064956	0.99627657	0.98605755	0.97583852	0.9656195	0.95540047
	1.62%	1.97%	2.13%	2.14%	2.04%	1.82%	1.52%	1.14%	0.70%	0.18%
	60%	65%	70%	75%	80%	85%	90%	95%	100%	105%
				8,133					8,036	8,010
				8,189					7,955	7,906
				8,210					7,964	7,911
				8,009					7,872	7,848

FIG. 52

106080-6286860

-0.0817522
0.00444444
1.17



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FIG. 53

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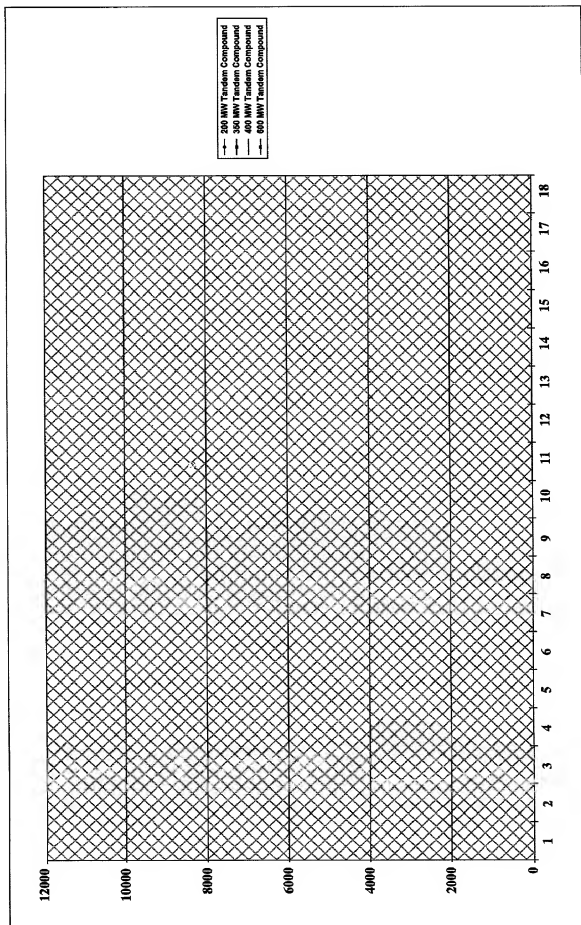


FIG. 54

File Name: CoalPer031601

Project Name: Sample Project

Location: USA

Operator: To Be Determined

IE Dispatch Information:		For Reference Only									
Average Capacity:		2001	2002	2003	2004	2005	2006	2007	2008	2009	
Capacity Factor	83.70%	85.00%	71.30%	69.60%	67.50%	68.10%	67.10%	67.10%	68.00%	67.90%	
Calculated Capacity Factor	89.50%	77.10%	87.78%	88.03%	87.78%	87.78%	87.78%	87.78%	77.34%	87.78%	
Availability	93.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	90.00%	
Average Load	83.00%	84.44%	879.22%	77.33%	75.00%	75.67%	74.56%	75.56%	75.56%	75.44%	
Hours in Years	8,760	8,760	8,764	8,760	8,760	8,760	8,760	8,760	8,760	8,760	
Hours Dispatched	7,884	7,884	7,908	7,884	7,884	7,884	7,884	7,884	7,884	7,884	
Annual Output	2,731,405	2,773,929	2,733,127	2,714,276	2,692,746	2,722,326	2,195,692	2,219,063	2,215,800	2,215,800	
Calculated Annual Output	2,921,798	2,515,970	2,864,503	2,872,651	2,864,503	2,864,503	2,864,503	2,524,019	2,864,503	2,864,503	

Major Outages

Hours Available for Dispatched		2001	2002	2003	2004	2005	2006	2007	2008	2009	
January	744	744	744	744	744	744	744	744	744	744	
February	672	672	672	672	672	672	672	672	672	672	
March	240	240	240	240	240	240	240	240	240	240	
April	720	720	720	720	720	720	720	720	720	720	
May	744	744	744	744	744	744	744	744	744	744	
June	720	720	720	720	720	720	720	720	720	720	
July	744	744	744	744	744	744	744	744	744	744	
August	744	744	744	744	744	744	744	744	744	744	
September	720	720	720	720	720	720	720	720	720	720	
October	744	744	744	744	744	744	744	744	744	744	
November	720	720	720	720	720	720	720	720	720	720	
December	744	744	744	744	744	744	744	744	744	744	
Total	8256	7248	8256	8256	8256	8256	8256	8256	8256	8256	
Hours Dispatched		2001	2002	2003	2004	2005	2006	2007	2008	2009	
January	744	744	744	744	744	744	744	744	744	744	
February	672	672	672	672	672	672	672	672	672	672	
March	240	240	240	240	240	240	240	240	240	240	
April	720	720	720	720	720	720	720	720	720	720	
May	744	744	744	744	744	744	744	744	744	744	
June	720	720	720	720	720	720	720	720	720	720	
July	744	744	744	744	744	744	744	744	744	744	
August	744	744	744	744	744	744	744	744	744	744	
September	720	720	720	720	720	720	720	720	720	720	
October	744	744	744	744	744	744	744	744	744	744	
November	720	720	720	720	720	720	720	720	720	720	
December	744	744	744	744	744	744	744	744	744	744	
Total	8256	7248	8256	8256	8256	8256	8256	8256	8256	8256	
Total Hours Dispatched		8256	7248	8256	8256	8256	8256	8256	8256	8256	
Percentage of Available Hours		100.00%	94.52%	94.54%	94.54%	94.54%	94.54%	94.54%	94.54%	94.54%	
Percentage of Annual Hours		94.25%	78.20%	89.10%	89.11%	89.10%	89.10%	89.10%	78.24%	89.10%	
Average Annual Load		95.00%	98.58%	98.51%	98.51%	98.51%	98.51%	98.51%	98.55%	98.51%	

FIG. 55

FIG. 56

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Unit 1 Dispatch Information:		January-01	February-01	March-01	April-01	May-01	June-01	July-01
Hours Available for Dispatch		744	672	240	720	744	720	744
Percentage of Hours Dispatched		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Average Dispatched Load		95.00%	95.00%	95.00%	95.00%	95.00%	95.00%	95.00%
Fuel Fired tons/hr		195.86	195.86	195.86	195.86	195.86	195.86	195.86
Total Ash (100% up)- tons		145,718	131,616	47,006	141,018	145,718	141,018	145,718
Total Limestone (100% up)- tons		8,015	7,239	2,585	7,756	8,015	7,756	8,015
Total Flyash/Limestone Load- tons		2,160	1,951	697	2,090	2,160	2,090	2,160
Heat Rate Information:		10,174	9,189	3,282	9,864	10,174	9,846	10,174
Gross Generation		263,301,377	237,820,598	84,935,928	254,807,784	263,301,377	254,807,784	263,301,377
Unit 1 Gross Heat Rate- BTU/kWh:		9,408	9,408	9,408	9,408	9,408	9,408	9,408
Net Generation		248,819,801	224,740,465	80,264,452	240,793,356	248,819,801	240,793,356	248,819,801
Plant Net Heat Rate- BTU/kWh:		9,956	9,956	9,956	9,956	9,956	9,956	9,956
Unit 1 Dispatch Information:		January-02	February-02	March-02	April-02	May-02	June-02	July-02
Hours Available for Dispatch		744	672	240	720	744	720	744
Percentage of Hours Dispatched		93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Average Dispatched Load		98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
Fuel Fired tons/hr		202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Ash (100% up)- tons		140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Limestone (100% up)- tons		7,705	6,960	2,485	7,537	7,871	7,700	8,128
Total Flyash/Limestone Load- tons		2,232	2,016	712	2,160	2,232	2,184	2,281
Heat Rate Information:		9,938	8,976	3,197	9,697	10,104	9,884	10,409
Gross Generation		252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:		9,428	9,428	9,428	9,428	9,428	9,435	9,442
Net Generation		238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:		9,977	9,977	9,970	9,977	9,977	9,984	9,981

FIG. 57

Unit 1 Gross Capacity: 373

August-01	September-01	October-01	November-01	December-01	Gross Capacity Factor:	2001
744	720	744	720	744		89.53%
100.00%	100.00%	100.00%	100.00%	100.00%		
95.00%	95.00%	95.00%	95.00%	95.00%	Fuel Fired	2,350.29
195.86	195.86	195.86	195.86	195.86	tons/hr	1,617.002
141,018	141,018	141,018	141,018	145,718	tons	88,935
7,756	7,756	8,015	7,756	8,015	Total Ash (100% up)- tons	23,964
2,090	2,090	2,160	2,090	2,160	Total Limestone- tons	112,899
9,846	9,846	10,174	9,846	10,174	Total Flyash/Limestone Load- tons	
254,807,784	254,807,784	263,301,377	254,807,784	263,301,377	Gross Generation	2,921,795,923
9,408	9,408	9,408	9,408	9,408	Unit 1 Gross Heat Rate- BTU/kWh:	9,408
240,793,356	240,793,356	248,819,801	240,793,356	248,819,801	Net Generation	2,761,037,147
9,956	9,956	9,956	9,956	9,956	Plant Net Heat Rate- BTU/kWh:	9,956
August-02	September-02	October-02	November-02	December-02	Gross Capacity Factor:	2002
744	720	0	456	744		77.10%
96.00%	95.00%	95.00%	94.00%	94.00%		
100.00%	99.00%	98.00%	98.00%	98.00%	Fuel Fired	2,440.77
206.90	204.89	202.48	202.48	202.48	tons/hr	1,395,919
147,777	140,006	0	86,789	141,603	tons	76,776
8,128	7,700	0	4,773	7,788	Total Ash (100% up)- tons	21,885
2,281	2,184	0	1,368	2,232	Total Limestone- tons	98,661
10,409	9,884	0	6,142	10,021	Total Flyash/Limestone Load- tons	
266,072,970	252,259,706	0	156,485,954	255,319,188	Gross Generation	2,515,870,136
9,442	9,435	#DIV/0!	9,428	9,428	Unit 1 Gross Heat Rate- BTU/kWh:	9,432
251,438,957	238,385,422	0	147,879,226	241,276,632	Net Generation	2,377,497,279
9,991	9,934	#DIV/0!	9,977	9,977	Plant Net Heat Rate- BTU/kWh:	9,981

FIG. 58

59/64

Unit 1 Dispatch Information:	January-03	February-03	March-03	April-03	May-03	June-03	July-03
Hours Available for Dispatch	744	672	240	720	744	720	744
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Average Dispatched Load	202.48	202.48	200.27	202.48	202.48	204.89	206.90
Fuel Fired tons/hr	140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Ash (100% up)- tons	7,705	6,960	2,485	7,537	7,871	7,700	8,128
Total Limestone (100% up)- tons	2,232	2,016	712	2,160	2,232	2,184	2,281
Total Fiyash/Limestone Load- tons	9,938	8,976	3,197	9,697	10,104	9,884	10,409
Heat Rate Information:							
Gross Generation	252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation	238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:	9,977	9,977	9,970	9,977	9,977	9,984	9,991
Unit 1 Dispatch Information:	January-04	February-04	March-04	April-04	May-04	June-04	July-04
Hours Available for Dispatch	744	696	240	720	744	720	744
Percentage of Hours Dispatched	93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Average Dispatched Load	202.48	202.48	200.27	202.48	202.48	204.89	206.90
Fuel Fired tons/hr	140,097	131,058	45,180	137,035	143,110	140,006	147,777
Total Ash (100% up)- tons	7,705	7,208	2,485	7,537	7,871	7,700	8,128
Total Limestone (100% up)- tons	2,232	2,088	712	2,160	2,232	2,184	2,281
Total Fiyash/Limestone Load- tons	9,938	9,297	3,197	9,697	10,104	9,884	10,409
Heat Rate Information:							
Gross Generation	252,603,026	236,306,057	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:	9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation	238,709,860	223,309,224	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:	9,977	9,977	9,970	9,977	9,977	9,984	9,991

FIG. 59

2003 87.78%			
August-03	September-03	October-03	November-03
744	720	744	744
96.00%	95.00%	95.00%	94.00%
100.00%	99.00%	98.00%	98.00%
206.90	204.89	202.48	202.48
147,777	140,006	143,110	141,603
8,128	7,700	7,871	7,788
2,281	2,184	2,232	2,232
10,409	9,884	10,104	9,697
Gross Capacity Factor:			
Fuel Fired tons/hr			
Total Ash (100% up)- tons			
Total Limestone- tons			
Total Flyash/Limestone Load- tons			
Gross Generation			
Unit 1 Gross Heat Rate- BTU/kWh:			
Net Generation			
Plant Net Heat Rate- BTU/kWh:			
266,072,970	252,259,706	258,035,349	247,083,085
9,442	9,435	9,428	9,428
251,438,957	238,385,422	243,843,405	233,493,515
9,991	9,934	9,977	9,977
2004 88.03%			
August-04	September-04	October-04	November-04
744	720	744	744
96.00%	95.00%	95.00%	94.00%
100.00%	99.00%	98.00%	98.00%
206.90	204.89	202.48	202.48
147,777	140,006	143,110	137,035
8,128	7,700	7,871	7,537
2,281	2,184	2,232	2,160
10,409	9,884	10,104	9,697
Gross Capacity Factor:			
Fuel Fired tons/hr			
Total Ash (100% up)- tons			
Total Limestone- tons			
Total Flyash/Limestone Load- tons			
Gross Generation			
Unit 1 Gross Heat Rate- BTU/kWh:			
Net Generation			
Plant Net Heat Rate- BTU/kWh:			
266,072,970	252,259,706	258,035,349	247,083,085
9,442	9,435	9,428	9,428
251,438,957	238,385,422	243,843,405	233,493,515
9,991	9,934	9,977	9,977

FIG. 60

61/64

Unit 1 Dispatch Information:		January-05	February-05	March-05	April-05	May-05	June-05	July-05
Hours Available for Dispatch		744	672	240	720	744	720	744
Percentage of Hours Dispatched		93.00%	93.00%	94.00%	94.00%	95.00%	95.00%	96.00%
Average Dispatched Load		98.00%	98.00%	97.00%	98.00%	98.00%	99.00%	100.00%
Fuel Fired tons/hr		202.48	202.48	200.27	202.48	202.48	204.89	206.90
Total Ash (100% up) tons		140,097	126,539	45,180	137,035	143,110	140,006	147,777
Total Limestone (100% up) tons		7,705	6,960	2,485	7,537	7,871	7,700	8,128
Total Flyash/Limestone Load- tons		2,232	2,016	712	2,160	2,232	2,184	2,281
Heat Rate Information:		9,938	8,976	3,197	9,697	10,104	9,884	10,409
Gross Generation		252,603,026	228,157,572	81,520,610	247,083,085	258,035,349	252,259,706	266,072,970
Unit 1 Gross Heat Rate- BTU/kWh:		9,428	9,428	9,422	9,428	9,428	9,435	9,442
Net Generation		238,709,860	215,608,906	77,036,976	233,493,515	243,843,405	238,385,422	251,438,957
Plant Net Heat Rate- BTU/kWh:		9,977	9,977	9,970	9,977	9,977	9,984	9,991

FIG. 61

62/64

August-05	September-05	October-05	November-05	December-05	Gross Capacity Factor: Fuel Fired tons/hr tons Total Ash (100% up)- tons Total Limestone- tons Total Flyash/Limestone Load- tons Gross Generation Unit 1 Gross Heat Rate- BTU/kWh: Net Generation Plant Net Heat Rate- BTU/kWh:	2005
744	720	744	720	744		87,78%
96.00%	95.00%	95.00%	94.00%	94.00%		2,440.77
100.00%	99.00%	98.00%	98.00%	98.00%		1,589,275
206.90	204.89	202.48	202.48	202.48		87,410
147,777	140,006	143,110	137,035	141,603		24,910
8,128	7,700	7,871	7,537	7,788		112,321
2,281	2,184	2,232	2,160	2,232		
10,409	9,884	10,104	9,697	10,021		
265,072,970	252,259,706	258,035,349	247,083,085	255,319,188		2,864,502,616
9,442	9,435	9,428	9,428	9,428		9,432
251,438,957	238,385,422	243,843,405	233,493,515	241,276,632		2,705,954,973
9,981	9,934	9,977	9,977	9,977		9,981

FIG. 62

63/64

Assumed Tax (per ton of Carbon):	\$40
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		Sub- Bituminous
Facility Net Heat Rate (HHV):	BTU/KWH	9,956
HHV of Coal:	BTU/#	8,500
Percent Carbon in Coal (WT)		48.30%
Unit Capacity:	MW	373
Carbon Loss:		0.25%
Molecular Weight of Carbon		12.01
Molecular Weight of O2		32.00
Price per MMBtu from Coal		1.11
Price per Ton of Coal (delivered)	per Ton	\$30.00
Net KWH Produced:		2,761,097,147
Coal Fired	Tons	1,617,002
Carbon in Flue Gas	Tons	781,012
CO2	Tons	2,861,804
Fuel Cost:	Total	\$48,631,344
	\$/kwh	\$0.0176
	Carbon Tax:	\$31,240,484
	per KWH	\$0.0113
	per MMBtu	\$1.14

Tons CO2/kWh

0.001036473

FIG. 63

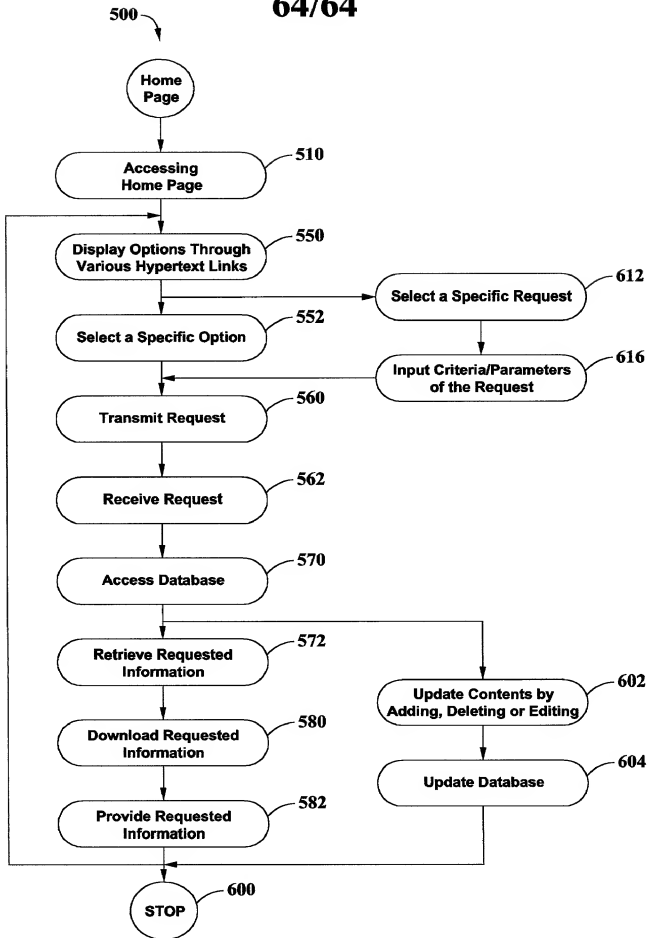


FIG. 64